

Novel and Pandemic Influenza A Virus Infection Case Investigation Form

Case Information

Date of Report: ____/____/____ (DD/MM/YYYY)

State/Local Case Identification Number: _____

CDC Case Identification Number: _____

Name of case-patient: Last _____ First _____ Initials of case-patient (if not US case): _____

Postal address: Street _____ Village/Town/City
_____ County/District _____

State/Province _____ Zip Code/Postal Code _____

GIS coordinates of residence (Latitude Degrees/Minutes/Seconds X Longitude Degrees/Minutes/Seconds)

Telephone # _____ Cell/Mobile _____ Fax _____ E-mail _____

Immigration status: US resident Resides abroad but visiting US

Reporter Information

Name of reporter: Last _____ First _____

Postal address: Street _____ City _____ State/Province _____ Zip Code/Postal Code _____

Telephone # _____ Cell/Mobile _____ Fax _____ E-mail _____

Reporter's Organization:

State or County Health Department: _____ City _____
State/Province _____

Source of Information

Case-patient

Proxy; IF YES, relationship of proxy to case-patient _____ Reason for use of proxy _____

Name of proxy: Last _____ First _____

Postal address: Street _____ Village/Town/City
_____ County/District _____

State/Province _____ Zip Code/Postal Code _____

Telephone # _____ Cell/Mobile _____ Fax _____

E-mail _____

Case-Patient Demographic Information

Public reporting burden of this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-0004).

Date of Birth: ____/____/____(DD/MM/YYYY)

Race: White Asian American Indian/Alaska Native
Black Native Hawaiian/Other Pacific Islander Unknown

Ethnicity: Hispanic Non-Hispanic Unknown

Sex: Male Female

Social History and Contact Tracing

Number of household members (including case patient) _____

Does the case-patient have family members or close contacts with pneumonia or severe influenza-like-illness?
[close-contact defined as contact within 1 meter (or 3 feet) with a person (e.g. caring for, speaking with, or touching)]

Yes (complete contact form) No N/A Unknown

[If YES, list any identified contacts on the contact tracing form]

What is the current job of the case-patient? (check all that apply)

Laboratory worker Health care worker Poultry farm-worker Wildlife worker

Veterinary worker Other animal farm-worker

Other _____ Other animal husbandry _____

How long has the case-patient worked in their current job? (number) _____ months
years

If less than six months, list the type of job previously held: (specify job) _____ (specify length of
time at previous job) _____

Does the case-patient work in a health care facility or setting?

Yes (specify name) _____ No Unknown

Exposures- Travel history

In the 10 days prior to illness onset, did the case-patient travel?

Yes No Unknown

If YES, please fill in the arrival and departure dates for all countries visited.

- a. Country _____ Arrival _____ Departure _____
Mode of Transportation _____ Flight/Ship # _____
- b. Country _____ Arrival _____ Departure _____
Mode of Transportation _____ Flight/Ship # _____
- c. Country _____ Arrival _____ Departure _____
Mode of Transportation _____ Flight/Ship # _____
- d. Country _____ Arrival _____ Departure _____
Mode of Transportation _____ Flight/Ship # _____
- e. Country _____ Arrival _____ Departure _____
Mode of Transportation _____ Flight/Ship # _____
- f. Country _____ Arrival _____ Departure _____
Mode of Transportation _____ Flight/Ship # _____

g. Country_____ Arrival_____ Departure_____
Mode of Transportation_____ Flight/Ship #_____

Exposures-Contact with probable or confirmed case-patients

In the 10 days prior to illness onset:

Did the case-patient have close contact (within 1 meter (or 3 feet)) with a person (e.g. caring for, speaking with, or touching) with fever and cough, or pneumonia, or that died of a respiratory illness in the 10 days prior to illness onset?

Yes No Unknown

If YES, was the contact in the U.S.A. or international?

US International Unknown

If International, in which country or countries?

County: _____ Date(s) of Contact:

County: _____ Date(s) of Contact:

In the 10 days prior to illness onset:

Did the case-patient have close contact (within 1 meter (3 feet)) with a person (e.g. caring for, speaking with, or touching) who is a suspected, probable or confirmed novel (including avian and pandemic) human influenza A case within the week prior to illness onset?

YES No Unknown

If YES:

a. Did the patient directly touch or provide physical care for the probable or confirmed case?

YES No Unknown

b. Did the patient speak to or touch or any items belonging to the probable or confirmed case?

YES No Unknown

In the 10 days prior to illness onset:

Did the case-patient visit or stay in the same household with anyone who died during or following the visit?

Yes No Unknown

If this case-patient has a diagnosis of novel influenza A virus infection that has not been laboratory confirmed, is there an epidemiologic link between this patient and a laboratory-confirmed or probable novel influenza A case?

Yes No Unknown

In the 10 days prior to illness onset:

Did the case-patient seek care for an unrelated health condition in a healthcare facility known to be simultaneously caring for other suspected or confirmed human cases of avian or novel influenza?

Yes No Unknown

Exposures-Contact with Poultry and Other Animals

Are any sick or dead animal(s) present in the case-patient's home, village, neighborhood, or workplace?

Yes No Unknown

If YES, which of following are present? (check all that apply)

Chickens/poultry Wild birds Pigs Other
(specify) _____

If YES, what is the status of the animals during the two weeks prior to case-patient illness onset?

Well-appearing Diseased Dead (approximate date of death) _____

If there are sick poultry, are they vaccinated against influenza?

Yes No Unknown

If there are sick pigs, are they vaccinated against influenza?

YES No Unknown

In the 10 days prior to illness onset, did the case-patient have contact with any of the following animals? (check all that apply)

Chickens/poultry Wild birds Pigs Other
(specify) _____

If the patient had contact with animals, please answer the following questions, otherwise skip to the Medical History section:

What was the nature of the contact (check all that apply)?

Direct touching (specify animal(s)) _____

Proximity within 1 meter but not touching (specify animal(s)) _____

If the case-patient directly touched the bird(s) or other animal(s), which of the following did the patient do with the animal:

(check all that apply)

Carry/handle Slaughter/butcher Prepare for consumption Other (specify)

If the case-patient directly touched the bird(s) or other animal(s), approximately how many sick or dead birds/animals did the patient touch?

One only 2-5 6-20 21-100 >100

What species of bird(s) or other animal(s) did the case-patient come in contact with? (directly or within 1 meter)

Species #1 _____ Species #2 _____ Species #3 _____

What was the status of the bird(s) or other animal(s) during the two weeks PRIOR to case-patient illness onset?

Well-appearing Diseased Dead (approximate date of death)

What is the status of the bird(s) or other animal(s) AFTER the onset of illness in the case-patient?

Well-appearing

Diseased Dead (approximate date of death)

Where did the contact occur? (check all that apply)

Live animal market

Commercial animal farm

Backyard animals Inside home

Cockfighting

Slaughterhouse

Veterinary contact Hunting

Wildlife

Other contact _____

Are the bird(s) or other animal(s) that the case-patient came in contact with vaccinated with any of following influenza vaccines?

H1

H3

H5

Not vaccinated

Unknown vaccination status

Was the contact in the US or international?

US

International

Unknown

If contact was in the US, in which city and state did it occur?

City: _____ State: _____ Date: _____

City: _____ State: _____ Date: _____

If contact was international, in which country or countries did it occur?

City _____ Province _____ Country: _____ Dates: _____

City _____ Province _____ Country: _____ Dates: _____

Answer the remaining questions in this section in terms of the 10 days prior to the onset of the patient's illness:

Did the case-patient touch (handle, slaughter, butcher, prepare for consumption) animals (including poultry, wild birds, or swine) or their remains in an area where influenza infection in animals or novel influenza in humans has been suspected or confirmed in the last month?

Yes

No

Unknown

Was the case-patient exposed to animal (including poultry, wild birds, or swine) remains in an area where influenza infection in animals or novel influenza in humans has been suspected or confirmed in the last month?

Yes

No

Unknown

Was the case-patient exposed to environments contaminated by to animal feces (including poultry, wild birds, or swine) in an area where influenza infection in animals or novel influenza in humans has been suspected or confirmed in the last month?

Yes

No

Unknown

Did the case-patient consume raw or undercooked animals (including poultry, wild birds, or swine products) in an area where influenza infections in animals or novel influenza in humans has been suspected or confirmed in the last month?

Yes No Unknown

Did the patient visit an agricultural event, farm, petting zoo or place where pigs live or were exhibited (state or county fair) in the last month?

Yes No Unknown

Did the patient have direct contact with pigs at an agricultural event, farm, petting zoo or place where pigs were exhibited (state or county fair) in the last month?

Yes No Unknown

Did the case-patient handle samples (animal or human) suspected of containing influenza virus in a laboratory or other setting?

Yes No Unknown

Medical History-Vaccination Status

Was the case-patient vaccinated against human influenza in the past year?

Yes No Unknown

If YES, date of vaccination ____/____/____

Type of vaccine: Inactivated Live Attenuated Unknown

Was the case-patient vaccinated against avian influenza A (H5N1)?

Yes No Unknown

If YES, date of vaccination: ____/____/____

Type of vaccine: _____

Medical History-Past Medical History

Is the case-patient pregnant?

Yes (weeks pregnant) _____ No Unknown

Does the case-patient have any of the following?

- | | | | | |
|---|-----|----|---------|-------------------|
| a. Asthma | yes | no | unknown | |
| b. Other chronic lung disease | yes | no | unknown | (If YES, specify) |
| _____ | | | | |
| c. Chronic heart or circulatory disease | yes | no | unknown | (If YES, specify) |
| _____ | | | | |
| d. Metabolic disease (including diabetes mellitus) | yes | no | unknown | (If YES, specify) |
| _____ | | | | |
| e. Kidney disease | yes | no | unknown | (If YES, specify) |
| _____ | | | | |
| f. Cancer in the last 12 months | yes | no | unknown | (If YES, specify) |
| _____ | | | | |
| g. Immunosuppressive condition (such as HIV infection, cancer, chronic corticosteroid therapy, diabetes, or organ transplant recipient) | | | | |

yes no unknown (If YES, specify)

h. Other chronic diseases yes no unknown (If YES, specify)

Is the case-patient on chronic drug therapy?

Yes No Unknown

If yes, complete table below

Drug	Dose	Frequency	Date Initiated
	mg		
	mg		
	mg		
	mg		
	mg		

Has the case-patient smoked at least 100 cigarettes in their life? (100 cigarettes = approximately 5 packs) yes no unknown

If YES, does the patient now smoke cigarettes: everyday some days not at all

Medical History-Illness onset and presenting symptoms

Date of illness onset _____ (DD/MM/YYYY)

Date(s) of outpatient medical presentation(s) (clinic location, name):

Clinic #1 name: _____ Date(s): _____ (DD/MM/YYYY) Telephone #: _____ Fax #: _____

Address: _____

Clinic #2 name: _____ Date(s): _____ (DD/MM/YYYY) Telephone #: _____ Fax #: _____

Address: _____

Date(s) of hospital admission(s):

Hospital #1 Name: _____ Telephone# _____ Fax #: _____

Address: _____

Admission date: _____ (DD/MM/YYYY)

Discharged (specify date) _____ Transferred (specify date) _____

Hospital #2 Name: _____ Telephone# _____ Fax #: _____

Address: _____

Admission date: _____ (DD/MM/YYYY)

Discharged (specify date) _____ Transferred (specify date) _____

Within the last 7 days, has the case-patient experienced any of the following medical conditions:

- | | | | | |
|----|--|-----|----|---------|
| a. | Coughing | YES | NO | Unknown |
| b. | Diarrhea | YES | NO | Unknown |
| c. | Difficulty breathing
(or shortness of breath) | YES | NO | Unknown |
| d. | Eye infection | YES | NO | Unknown |
| e. | Fever (____°) temp if known | YES | NO | Unknown |
| f. | Feverishness | YES | NO | Unknown |
| g. | Headache | YES | NO | Unknown |
| h. | Muscle aches | YES | NO | Unknown |
| i. | Rash | YES | NO | Unknown |
| j. | Runny nose | YES | NO | Unknown |
| k. | Seizures | YES | NO | Unknown |
| l. | Sore throat | YES | NO | Unknown |
| m. | Vomiting | YES | NO | Unknown |
| n. | Other symptom(s) | YES | NO | |
- (specify) _____

Medical History-Treatment, Clinical Course, and Outcome

Did the case-patient receive antiviral medications?

Yes No Unknown

If yes, complete table below

Drug	Dose # 1	Dose #1	Dose #1	Dose #2	Dose #2	Dose #2
		Date Initiated (DD/MM/YYYY)	Date Discontinued (DD/MM/YYYY)		Date Initiated (DD/MM/YYYY)	Date Discontinued (DD/MM/YYYY)
Oseltamivir	mg			mg		
Zanamivir	mg			mg		
Rimantadine	mg			mg		
Amantadine	mg			mg		
Other _____						

Did the case-patient receive antibacterial medications?

Yes No Unknown

If yes, complete table below

Drug	Date Initiated	Date Discontinued	Dosage (if known)
			mg
			mg
			mg
			mg

Did the case-patient receive steroids?

Yes No Unknown

If yes, complete table below

Drug	Date Initiated	Date Discontinued	Dosage (if known)
			mg
			mg

Did the case-patient receive aspirin or other non-steroidal anti-inflammatory drugs (NSAIDs)?

Yes No Unknown

If yes, complete table below

Drug	Date Initiated	Date Discontinued	Dosage (if known)
			mg
			mg

Was the case-patient admitted to an intensive care unit (ICU)?

Yes No Unknown

Did this case-patient receive mechanical ventilation?

Yes No Unknown

Did the case-patient have acute respiratory distress syndrome (ARDS)?

Yes No Unknown

What was the outcome for the case-patient?

Alive Died Unknown

If the patient is ALIVE, what is the current disposition of the case-patient?

Still hospitalized Discharged to home Discharged to nursing care facility (specify name) _____

Unknown Other (specify) _____

If the patient DIED, please list date of death _____ (DD/MM/YYYY)

List the ICD-9CM diagnoses at ADMISSION and for each indicate if the diagnosis is a new diagnosis.

- 1. _____.___ New Unknown 4. _____.___ New Unknown
- 2. _____.___ New Unknown 5. _____.___ New Unknown
- 3. _____.___ New Unknown 6. _____.___ New Unknown

List the ICD-10 diagnoses at ADMISSION and for each indicate if the diagnosis is a new diagnosis.

- 1. _____.___ New Unknown 4. _____.___ New Unknown
- 2. _____.___ New Unknown 5. _____.___ New Unknown
- 3. _____.___ New Unknown 6. _____.___ New Unknown

List the ICD-9CM diagnoses at discharge and for each indicate if the diagnosis is a new sequelae of this hospitalization

- 1. _____.___ New Unknown 4. _____.___ New Unknown

- | | | | | | |
|----|--------------|---------|----|--------------|---------|
| 2. | ____. __ New | Unknown | 5. | ____. __ New | Unknown |
| 3. | ____. __ New | Unknown | 6. | ____. __ New | Unknown |

List the ICD-10 diagnoses at discharge and for each indicate if the diagnosis is a new sequelae of this hospitalization

- | | | | | | |
|----|--------------|---------|----|--------------|---------|
| 1. | ____. __ New | Unknown | 4. | ____. __ New | Unknown |
| 2. | ____. __ New | Unknown | 5. | ____. __ New | Unknown |
| 3. | ____. __ New | Unknown | 6. | ____. __ New | Unknown |

If ICD-9CM or ICD-10 diagnoses at ADMISSION are not available, write in diagnosis and indicate if the diagnosis is a new diagnosis.

- | | | | | | |
|----|---------|-----|-----|----|-------|
| 1. | _____ | New | Unk | 4. | _____ |
| | New Unk | | | | |
| 2. | _____ | New | Unk | 5. | _____ |
| | New Unk | | | | |
| 3. | _____ | New | Unk | 6. | _____ |
| | New Unk | | | | |

If ICD-9CM or ICD-10 diagnoses at DISCHARGE are not available, write in diagnosis and indicate if the diagnosis is a new sequelae of this hospitalization.

- | | | | | | |
|----|---------|-----|-----|----|-------|
| 1. | _____ | New | Unk | 4. | _____ |
| | New Unk | | | | |
| 2. | _____ | New | Unk | 5. | _____ |
| | New Unk | | | | |
| 3. | _____ | New | Unk | 6. | _____ |
| | New Unk | | | | |

Medical History-Laboratory and Diagnostic Testing
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Did the case-patient have a chest x-ray or chest CT scan performed?

Yes No not performed Unknown

If YES, which test was performed? (check all that apply)

Chest CT Chest X-ray

If either test was performed, what was the result?

Normal Abnormal Unknown

If abnormal, was there evidence of pneumonia?

Yes No Unknown

Did the case-patient have a CT scan/MRI of the head or brain?

Yes No not performed Unknown

If YES, were there any acute neurologic abnormalities?

Yes No Unknown

List the following laboratory test results UPON initial admission:

White blood cell (WBC) count	_____	Unknown
Lymphocyte count	_____	Unknown
Neutrophil count	_____	Unknown
Platelet count	_____	Unknown

Did the patient have any of the following laboratory abnormalities at any time during the hospitalization?

Leukopenia	(white blood cell count <5,000 leukocytes/mm ³)	
Yes	No	Unknown
Lymphopenia	(total lymphocytes <800/mm ³ or lymphocytes <15% of total WBC)	
Yes	No	Unknown
Thrombocytopenia	(total platelets <150,000/mm ³)	
Yes	No	Unknown

Were bacterial cultures performed?

Yes No Unknown

If YES, were any positive?

If positive, complete table below

Site (Urine, Blood, CSF, Pleural, Ascitic)	Date Performed	Date Positive	Organism grown

Were non-influenza viral tests performed?

Yes No Unknown

If yes, complete table below

Site (Urine, Blood, CSF, Pleural, Ascitic)	Date Performed	Result	Organism

Influenza Specific Diagnostic tests:

Test 1

Specimen type:

NP swab NP aspirate Nasal swab Nasal aspirate Sputum
 Oropharyngeal swab Endotracheal aspirate Chest tube fluid
 Bronchoalveolar lavage specimen (BAL) Serum
 Other

Date collected: __/__/__

	RT-PCR Yes or No	Direct fluorescent antibody (DFA)	Viral culture	Rapid antigen test	CDC RT-PCR
Influenza A	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested
H1	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H3	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H5	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H7	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
Influenza B	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested

Test type and result: (check all boxes that apply)

Test Location if not Hospital Laboratory _____

Test 2

Specimen type:

- NP swab NP aspirate Nasal swab Nasal aspirate Sputum
 Oropharyngeal swab Endotracheal aspirate Chest tube fluid
 Bronchoalveolar lavage specimen (BAL) Serum
 Other

Date collected: __/__/__

Test type and result: (check all boxes that apply)

	RT-PCR Yes or No	Direct fluorescent antibody (DFA)	Viral culture	Rapid antigen test	CDC RT-PCR
Influenza A	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested
H1	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H3	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H5	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H7	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
Influenza B	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested

Test Location if not Hospital Laboratory _____

Test 3

Specimen type:

NP swab NP aspirate Nasal swab Nasal aspirate Sputum
 Oropharyngeal swab Endotracheal aspirate Chest tube fluid
 Bronchoalveolar lavage specimen (BAL) Serum
 Other

Date collected: __/__/__

Test type and result: (check all boxes that apply)

	RT-PCR Yes or No	Direct fluorescent antibody (DFA)	Viral culture	Rapid antigen test	CDC RT-PCR
Influenza A	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested
H1	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H3	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H5	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
H7	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested		Negative Positive Inconclusive Pending Not tested
Influenza B	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested	Negative Positive Inconclusive Pending Not tested

Test Location if not Hospital Laboratory _____

Specimen Tracking

Indicate when and what type of specimens (including sera) were sent to CDC and CDCID number, if known

__/__/__ Specimen type _____ CDCID# _____

__/__/__ Specimen type _____ CDCID# _____

__/__/__ Specimen type _____ CDCID# _____